

Amherst

Green Streets



Quick Facts

Watershed:	Anacostia River
Sub-Watershed:	Sligo Creek
Completion Year:	2015
Impervious Area Treated:	0.65 acres
Maryland DNR Trust Fund Grant Award:	\$105,190

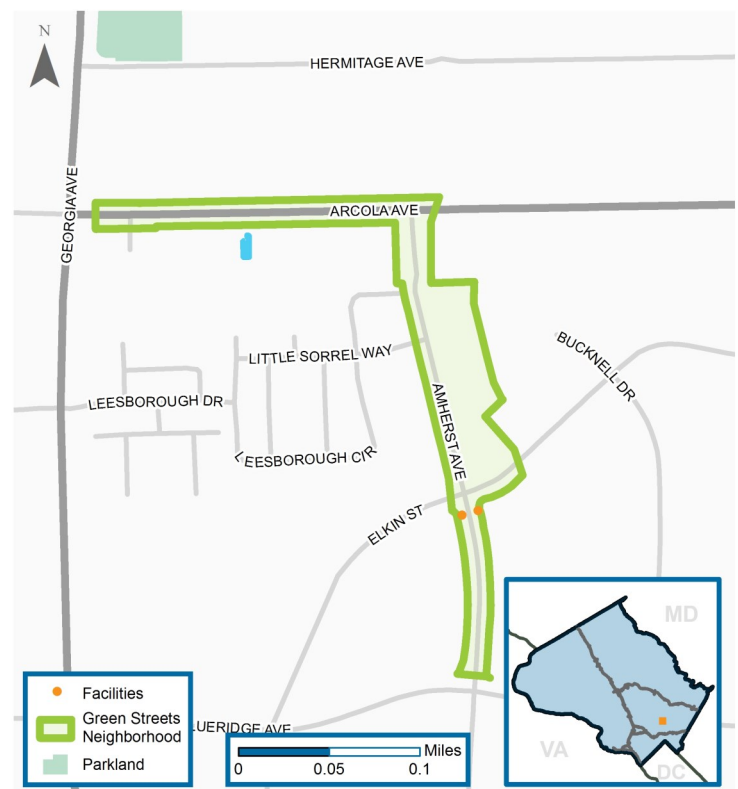
Pre-Restoration Conditions

Amherst Avenue is located in Wheaton, an area where much of the development occurred before stormwater management practices were required. In these older neighborhoods, stormwater runs off roofs, driveways, and roads into storm drains and directly into streams, sometimes carrying trash, oils or pollutants. The runoff moves rapidly over paved surfaces, causing higher flows during storms, erosion, streambank instability, and degraded habitat in streams.

Design Approach

DEP partnered with the Montgomery County Department of Transportation (DOT) to design a sidewalk and bus stop on the east side of Amherst Avenue. Two bioretention rain gardens were constructed on both the east and west side of Amherst Avenue. Both gardens were designed as bumpouts to maximize treatment volume and provide traffic calming.

Both bioretention rain gardens were designed to filter and slow down stormwater and self regulate the volume of water that enters them. Once water depth reaches the curb gutter elevation, water diverts around the facilities and down the curb and gutter. DEP Watershed Planners ensured community and DOT input was incorporated throughout the design process.



Water Quality Protection

DEP restoration projects help reduce sediment and nutrient pollution entering local waterways and the Chesapeake Bay.

Nitrogen
Reduced
9.32
lbs/yr

Phosphorus
Reduced
0.83
lbs/yr

Sediment
Reduced
422
lbs/yr

During-Construction



Installation of new road curbing for the bioretention rain garden on the west side of Amherst Avenue.

Post-Construction



Bioretention rain garden on the west side of Amherst Avenue, four years after construction.

During-Construction



Excavation of the new bioretention rain garden on the east side of Amherst Avenue.

During-Construction



Placement of gravel and soil media in the new bioretention rain garden on the east side of Amherst Avenue.

Post-Construction



Newly planted bioretention rain garden on the east side of Amherst Avenue.

Post-Construction



Bioretention rain garden on the east side of Amherst Avenue, four years after construction.

Contact Us:

AskDEP@montgomerycountymd.gov



This project was funded by Maryland's Chesapeake & Atlantic Coastal Bays Trust Fund and Montgomery County's Water Quality Protection Charge